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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIDATION
09/508,977	09/508,977 03/17/2000		THOMAS KIY	1997/F-237	CONFIRMATION NO. 4908
23416 CONNOL	7590	01/27/2003	27		
CONNOLLY BOVE LODGE & HUTZ, LLP 1220 N MARKET STREET				EXAMINER	
P O BOX 22 WILMING	207		MARX, IRENE		
	, , , ,	.,,,		ART UNIT	PAPER NUMBER
				1651	11
				DATE MAILED: 01/27/2003	م)

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/508,977

Applicant(s)

Examiner

Marx

Art Unit

Kiy



	irene Marx	1651					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
THE MAILING DATE OF THIS COMMONICA	REPLY IS SET TO EXPIRE <u>3</u> MONT						
- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.							
- Failure to reply within the set or extended period for reply will.	ays, a reply within the statutory minimum of thirty (30) days will by period will apply and will expire SIX (6) MONTHS from the mailiby statute, cause the application to become ABANDONED (35 U.) the mailing date of this communication, even if timely filed, may re	ing date of this communication.					
Status							
1) 🗓 Responsive to communication(s) filed	on <i>Nov 13, 2002</i>						
	This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.							
Disposition of Claims							
	is/are						
4a) Of the above, claim(s)	is/ar	e withdrawn from consideration.					
5) L Claim(s)		is/are allowed.					
6) X Claim(s) <u>15-27</u>		is/are rejected.					
/)		is/are objected to.					
8) U Claims	are subject to restric	tion and/or election requirement.					
Application Papers							
9) \square The specification is objected to by the							
10) The drawing(s) filed on	is/are a) □ accepted or b) □ objected	d to by the Examiner.					
Applicant may not request that any obje	ction to the drawing(s) be held in abeyance. See	37 CFR 1 85(a)					
11) The proposed drawing correction filed	on is: a) approved	b) disapproved by the Examiner.					
If approved, corrected drawings are requ	ired in reply to this Office action.	,					
12) The oath or declaration is objected to b	y the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some* c) ☐ None of:							
1. Certified copies of the priority doc							
2. Certified copies of the priority doc3. Copies of the certified copies of the	cuments have been received in Application No),					
The second secon	ne priority documents have been received in tational Bureau (PCT Rule 17.2(a)).	this National Stage					
14) Acknowledgement is made of a claim for	Or domestic priority under 25 U.S.C. \$ 1404	,					
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received.							
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (P)	1					
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 6) Other:							

Serial No. 09/508977 Art Unit 1651

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/13/02 has been entered. Claims 15-27 are being examined on the merits.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 15-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 15 is vague, indefinite and inconsistent in the recitation "said biogenous substance being the biomass itself or a substance extracted from the biomass", inasmuch as the process is directed to producing "a biomass" and biomass is, in fact, harvested. There is no harvesting step for a biogenous substance or for the extraction thereof.

Claim 15 is further confusing in the recitation of "harvesting ... at an extraction rate of about 0.1 to about 12 times said volume per day". Does applicant mean a range of replacing 0.1 of the initial volume per day to replacing the total initial volume 12 times during one day? It is unclear that replacing 0.1 of the initial volume per day would constitute "continuous culture". Clarification is required.

Claim 26 is vague and indefinite in the multiple "and/or" clauses recited. It is uncertain that sedimentation and flotation and centrifugation, for example, would be used in the harvesting process.

Claim 26 is confusing in the recitation "the cells contained in the harvested biomass", since biomass constitutes cells. It is recommended that this phrase be replaced by "wherein the produced biomass is separated from the harvested culture medium", if appropriate.

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Claim 27 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. It is well recognized by those of skill in this art that ciliate biomass comprises substances such as proteins, peptides, enzymes, etc. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

With respect to claim 16, the recitation "one of the taxonomic groups..." followed by "including the orders..." and "which include..." renders the claim indefinite because it is unclear whether the limitation(s) following the phrase "including the orders..." and "which include..." are part of the claimed invention or not, and the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. In addition, the nature of the wild-type strains, mutants and recombinants intended is unclear in the context of broad taxonomic groupings as recited herein.

The claims 15-27 would be allowable upon resolution of all 35 U.S.C § 112 issues. The claims are free of the art of record, because the process steps used in the prior art for the cultivation of ciliates differ from those claimed herein in that in the instant case the biomass is harvested continuously from the complex axenic medium. There would have been no motivation for one of ordinary skill in the art to modify the processes of the prior art relating to the cultivation of ciliates in the manner claimed at the time the claimed invention was made.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (703) 308-2922. The examiner can normally be reached on Monday through Friday from 6:30 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn, can be reached on (703) 308-4743. The appropriate fax phone number for the organization where this application or proceeding is assigned is before final (703) 872-9306 and after final, (703) 872-9307.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service whose telephone number is (703) 308-0198 or the receptionist whose telephone number is (703) 308-1235.

PRIMARY EXAMINER